

## INTERNATIONAL SEARCH REPORT

Int.	Application No
PCT/IB2004/003550	

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	B60L3/00	G01R31/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7	B60L	G01R	H02J	H02M
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 281 562 A (AISIN AW CO) 5 February 2003 (2003-02-05)	1, 7
A	abstract paragraph '0006! paragraphs '0130! - '0132! figure 1	2-6
A	EP 1 322 028 A (TOYOTA MOTOR CO LTD) 25 June 2003 (2003-06-25) figure 1 paragraphs '0016! - '0018!	1-7



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the International search	Date of mailing of the International search report
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20 January 2005

31/01/2005

Name and mailing address of the ISA	Authorized officer
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European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 09, 13 October 2000 (2000-10-13) & JP 2000 166105 A (TOYOTA MOTOR CORP), 16 June 2000 (2000-06-16) abstract	1-7
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06, 28 June 1996 (1996-06-28) & JP 08 051800 A (TOYOTA MOTOR CORP), 20 February 1996 (1996-02-20) cited in the application abstract	1,7
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12, 26 December 1996 (1996-12-26) & JP 08 214592 A (KANSAI ELECTRIC POWER CO INC:THE; TOSHIBA CORP), 20 August 1996 (1996-08-20) cited in the application abstract	1,7

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Ir.

el Application No

PCT/IB2004/003550

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1281562	A	05-02-2003	JP	2003047107 A		14-02-2003
			EP	1281562 A2		05-02-2003
			US	2003033060 A1		13-02-2003
EP 1322028	A	25-06-2003	JP	2003189599 A		04-07-2003
			EP	1322028 A2		25-06-2003
			US	2003117823 A1		26-06-2003
			US	2004228150 A1		18-11-2004
JP 2000166105	A	16-06-2000		NONE		—
JP 08051800	A	20-02-1996		NONE		
JP 08214592	A	20-08-1996	JP	3597591 B2		08-12-2004